

### Home learning activities

Subject
Science
Year Group
Year 7
Unit of work / Knowledge organiser
The Human Body - Revision
Activities
<ul style="list-style-type: none"> <li>Complete the 'Knowledge Check' by clicking on the link below (Mr Tobi has also emailed this link out to you):</li> </ul> <p><a href="https://forms.office.com/Pages/ResponsePage.aspx?id=tWaUKrjGMEuM3bZvypd0-1JR5WsjulFPvbjl4VXu0Y1UN1hVVEYwRjhGtKNMktQUKIENFNAMk9YTy4u">https://forms.office.com/Pages/ResponsePage.aspx?id=tWaUKrjGMEuM3bZvypd0-1JR5WsjulFPvbjl4VXu0Y1UN1hVVEYwRjhGtKNMktQUKIENFNAMk9YTy4u</a></p> <ul style="list-style-type: none"> <li>Read through both pages of the 'Knowledge Organiser' on 'The Human Body'.</li> <li>Make careful and detailed notes on Sections 1-6, including writing out the 'Key Words' and their definitions in Sections 2 and 6.</li> <li>Write down the meaning of the terms 'Organ System' and 'Peristalsis' without looking at your earlier notes from Sections 2 and 6.</li> <li>Complete the 'Test Yourself' activity, completing the 'Missing Vowels, Food Groups', 'Digestive System' and 'What Am I?' activities; the answers are provided at the end, but do not look at these until you have tried to complete the work yourself (<b>be strict with yourself here</b>).</li> <li>Complete the 'Human Body' exam-style question. Use the mark scheme (<b>once you have tried the question</b>) to mark your answers carefully.</li> </ul>
Where do you complete the work?
In Study Books.
What to do if you finish the work? (Extension activity)
<ul style="list-style-type: none"> <li>Make sure you have completed the previous set work on 'Cells - Revision' and then work on the 'Mini Project' on 'Digestion'.</li> </ul>

These websites might help:

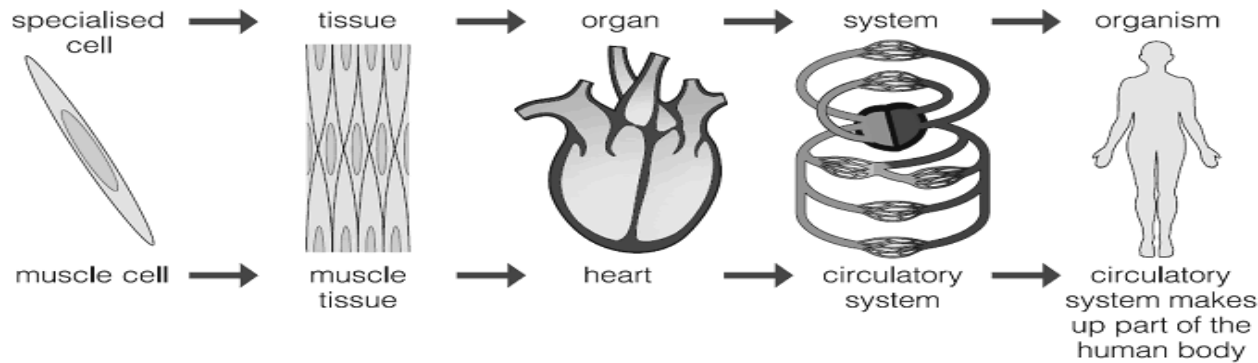
- BBC Bitesize -> Secondary -> KS3 -> Science -> Biology -> Nutrition, Digestion and Excretion

If you are struggling with your work or if you have finished.

**Please email your classroom teacher directly using the email list found in the Home Learning section of the website.**

# Year 7—The Human Body

## 1. Levels of organisation.



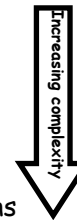
## 2. Cells, tissues and organs

**Cell**—Basic structural and functional unit of a living organism

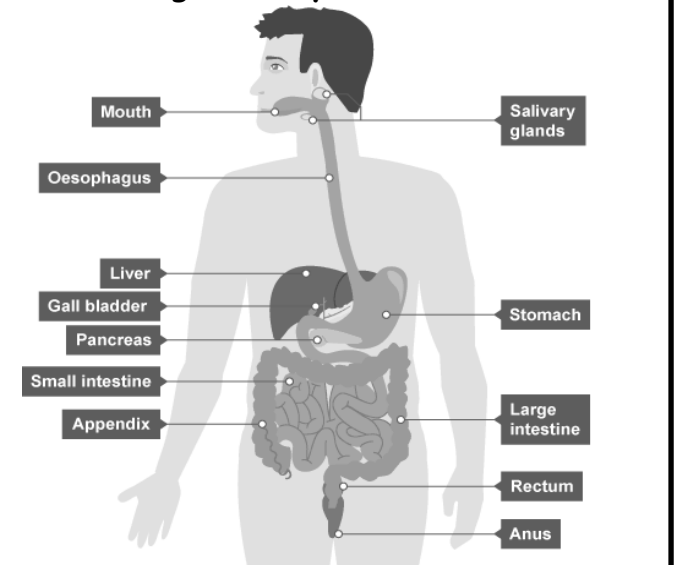
**Tissue**—Group of cells with similar structures, working together to perform a shared function

**Organ**—A group of tissues, working together to perform a specific function

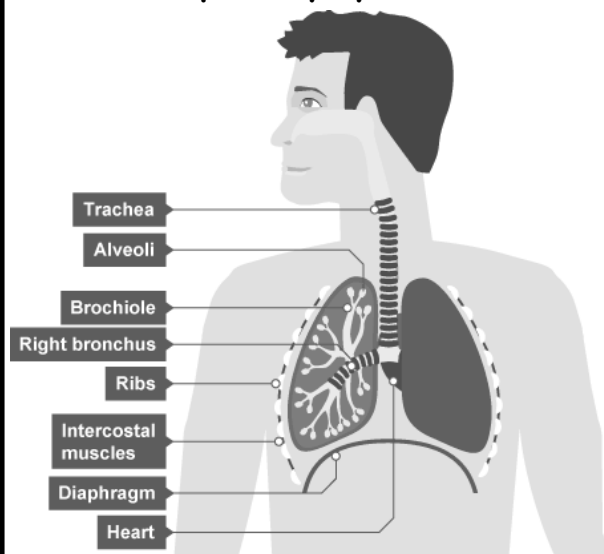
**Organ system**—Group of organs with related functions, working together to perform body functions



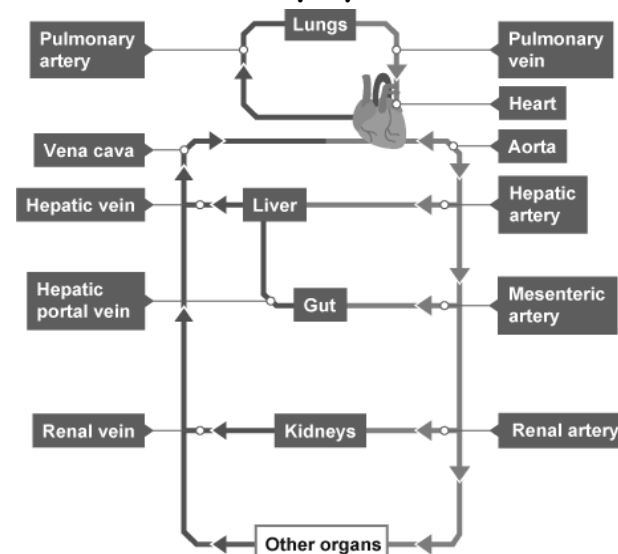
## 3. The Digestive system



## 4. The Respiratory system



## 5. The Circulatory system



## 6. The digestive system facts:

**Stomach**—an organ which releases an enzyme called **protease**. The stomach also releases acid and is at a pH of 2 to 3, first line of defence to fight against **pathogens**.

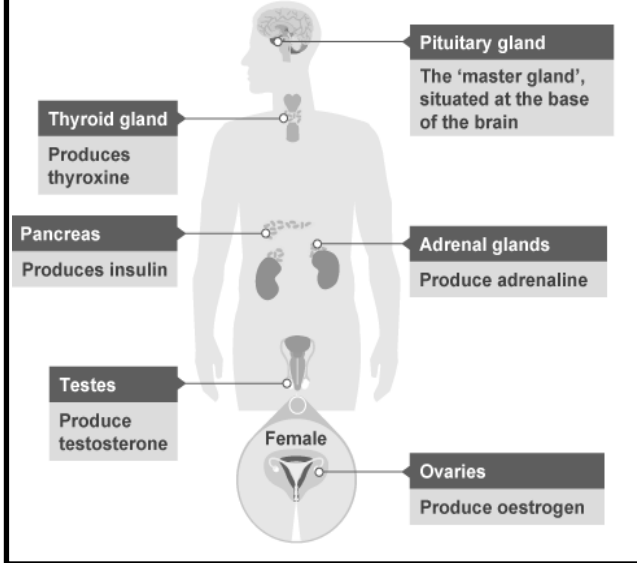
**Villi**—finger-like projections in the lining of the small intestine. They increase surface area to enable more food to be absorbed into the blood.

**Peristalsis**—the rhythmical contraction of the digestive system muscles to push the food (**bolus**) along.

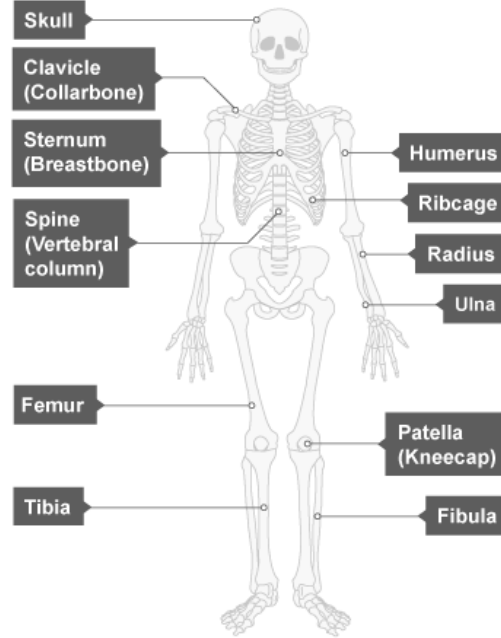
**Enzyme**—biological molecule (**catalyst**) that speeds up a chemical reaction.

# Year 7—The Human Body

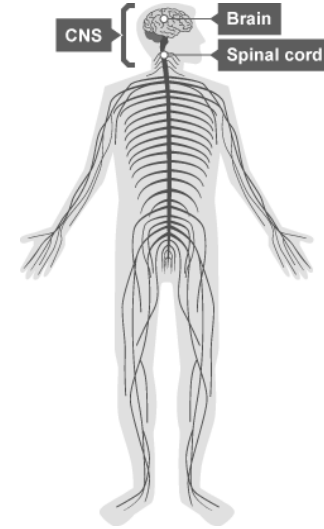
## 7. The Endocrine system



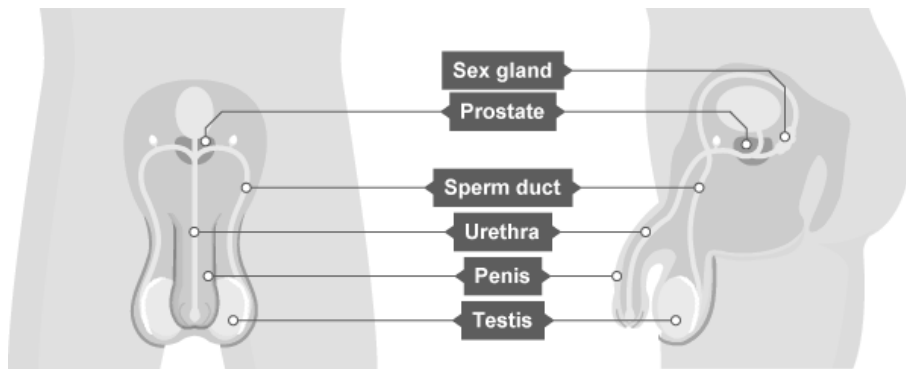
## 8. The Musculoskeletal system



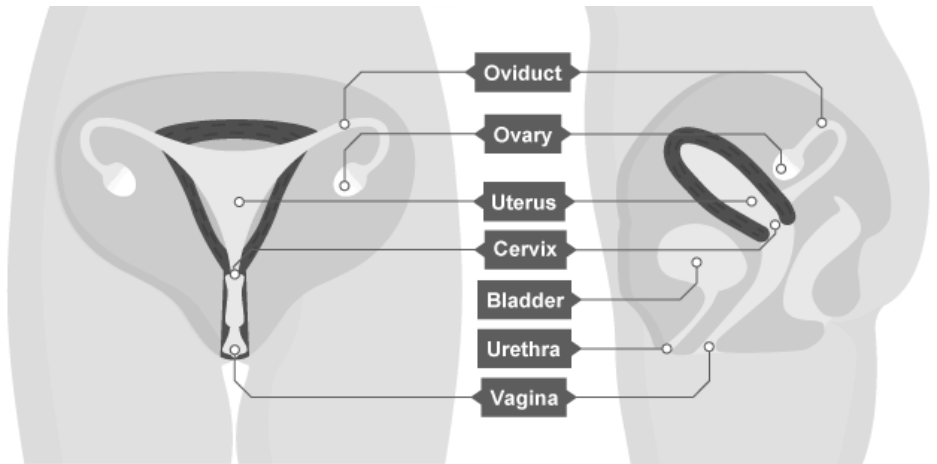
## 9. The Nervous system



## 10. The male reproductive system



## 11. The female reproductive system



# Test Yourself 1

## Missing Vowels, Food Groups

C\_r\_b\_hydr\_t\_s

M\_n\_r\_ls

F\_ts

F\_br\_

## Digestive System

Rearrange the parts of the digestive system below, so that they are in the correct order.

1. Mouth

\_\_\_\_\_

2. Large intestine

\_\_\_\_\_

3. Rectum

\_\_\_\_\_

4. Stomach

\_\_\_\_\_

5. Small intestine

\_\_\_\_\_

6. Oesophagus

\_\_\_\_\_

7. Anus

\_\_\_\_\_

## What Am I?

I link the mouth to the stomach, food moves along me by peristalsis.	
Food is absorbed from me into the blood.	
I contain hydrochloric acid and am responsible for churning the food and mixing it with digestive enzymes.	
Water is reabsorbed from me.	
I hold faeces until it is ready to be passed out of the body.	



# Test Yourself 1 Answers

## Missing Vowels, Food Groups

Carbohydrates

Minerals

Fats

Fibre

## Digestive System

Rearrange the parts of the digestive system below, so that they are in the correct order.

- |                    |                           |
|--------------------|---------------------------|
| 1. Mouth           | 1. <b>Mouth</b>           |
| 2. Large intestine | 2. <b>Oesophagus</b>      |
| 3. Rectum          | 3. <b>Stomach</b>         |
| 4. Stomach         | 4. <b>Small intestine</b> |
| 5. Small intestine | 5. <b>Large intestine</b> |
| 6. Oesophagus      | 6. <b>Rectum</b>          |
| 7. Anus            | 7. <b>Anus</b>            |

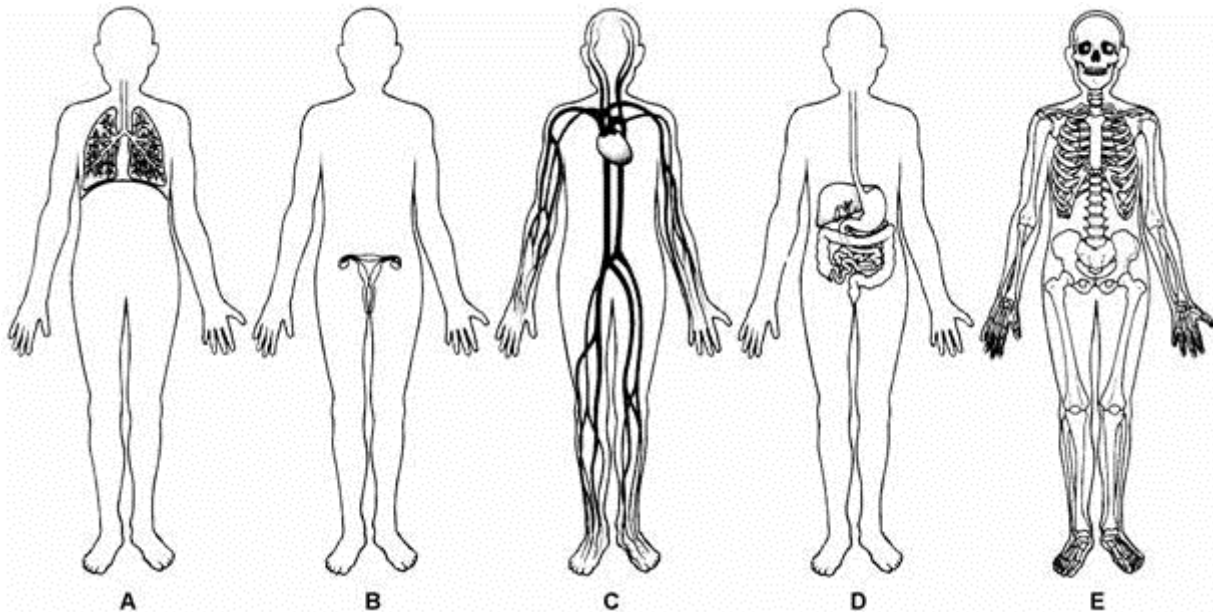
## What am I?

I link the mouth to the stomach, food moves along me by peristalsis.	<b>Oesophagus</b>
Food is absorbed from me into the blood.	<b>Small intestine</b>
I contain hydrochloric acid and am responsible for churning the food and mixing it with digestive enzymes.	<b>Stomach</b>
Water is reabsorbed from me.	<b>Large intestine</b>
I hold faeces until it is ready to be passed out of the body.	<b>Rectum</b>



## The Human Body – Exam-Style Question

Drawings A, B, C, D and E show the positions of five organ systems in the human body.



- (a) The names of the five organ systems are given in the table. By each name, write the letter of the drawing which shows the organ system.

name of organ system	letter of the drawing of the organ system
circulatory system	
digestive system	
reproductive system	
respiratory system	
skeleton	

5 marks

- (b) Which **one** of these organ systems is completely different in a man and a woman?

.....

1 mark  
Maximum 6 marks

# The Human Body – Exam-Style Question – Answers

(a)

<b>name of organ system</b>	<b>letter of the drawing of the organ system</b>
<i>circulatory system</i>	C
<i>digestive system</i>	D
<i>reproductive system</i>	B
<i>respiratory system</i>	A
<i>skeleton</i>	E

5 (L4)

(b) reproductive  
accept 'B'

1 (L3)

[6]



# Digestion

Watch this video: <https://www.youtube.com/watch?v=irdT9Av6ZPk>

Task	Description
1	Read through this website: <a href="#">10 tips for a healthy diet</a> Make your own leaflet saying advertising why we should eat healthily
2	Create a comic strip showing how food goes through the body.
3	Find the chemical formula for Glucose
4	How can obesity affect a person's life? Create a poster advertising the dangers of obesity
5	Write a newspaper article about the starvation of people in 3 <sup>rd</sup> World under developed countries. You must include research and the science of what can happen if you are malnourished.
6	Draw and label a diagram of the digestive system- label all the parts and explain their jobs
7	What are the 78 food groups and what are they used for?
8	What does the word malnourished mean?